

The schematic diagram illustrates the internal circuitry of the P6502 6071CE power supply, which provides four identical output channels. Each channel is composed of the following components:

- Transformer:** A transformer (T6500, T6501, T6502, T6503) with a primary winding connected to the input and a secondary winding providing the output voltage.
- Rectifier:** A full-bridge rectifier circuit (Q6500, Q6501, Q6503, Q6504) converting the AC output of the transformer into DC.
- Filter:** A filter capacitor (C6500, C6501, C6503, C6504) smoothing the DC output.
- Voltage Divider:** A voltage divider network (R6500, R6501, R6503, R6504) providing a feedback signal to the regulator.
- Reference Voltage:** A reference voltage (VREF) derived from a 1.5V Zener diode (ZD6501) and a resistor network (R6502, R6503, R6506, R6507).

The output voltage is regulated by a feedback network (R6502, R6503, R6506, R6507) and a reference voltage (VREF) derived from a 1.5V Zener diode (ZD6501). The output voltage is also monitored by a feedback network (R6502, R6503, R6506, R6507) and a reference voltage (VREF) derived from a 1.5V Zener diode (ZD6501).

Component Values:

- Transformers: T6500, T6501, T6502, T6503 (ZOB05CE)
- Rectifiers: Q6500, Q6501, Q6503, Q6504 (FZT1053A)
- Filter Capacitors: C6500, C6501, C6503, C6504 (0.15μF, 250V, FZA034WJ)
- Voltage Dividers: R6500, R6501, R6503, R6504 (3.3k, 1/4W)
- Reference Voltage: VREF (1.5V, ZD6501)
- Feedback Network: R6502, R6503, R6506, R6507 (10k, 33k, 10k, 33k)

Output Voltage: The output voltage is regulated by a feedback network (R6502, R6503, R6506, R6507) and a reference voltage (VREF) derived from a 1.5V Zener diode (ZD6501). The output voltage is also monitored by a feedback network (R6502, R6503, R6506, R6507) and a reference voltage (VREF) derived from a 1.5V Zener diode (ZD6501).

Pin Configuration:

- 1: INV VCC
- 2: INV GND
- 3: OFL

Manufacturer Information:

- DUNTKB415DE
- (QPWBSB415WJ)